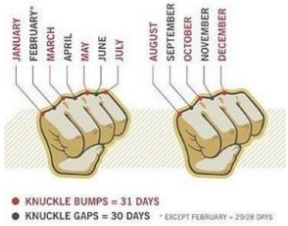
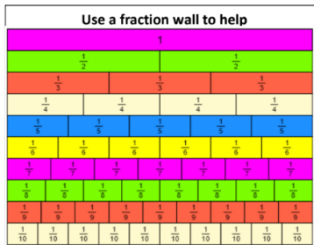
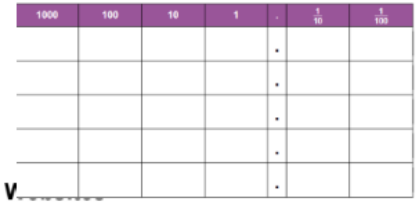
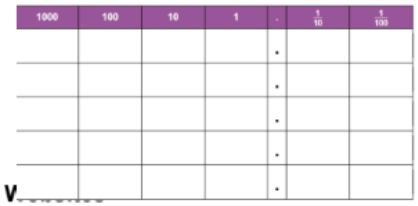
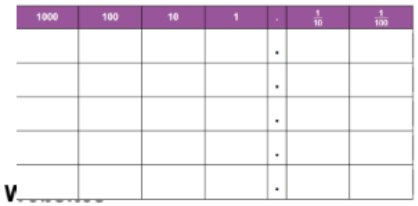
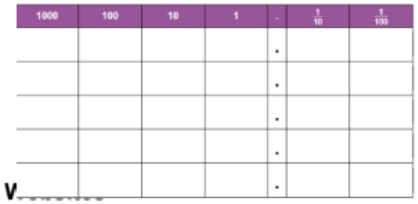
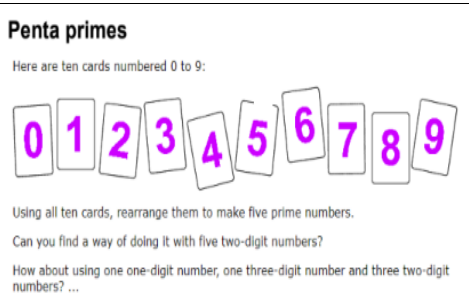
Brown's C of E Primary School, Horbling

Caring. Learning. Enjoying. Achieving within the love of God

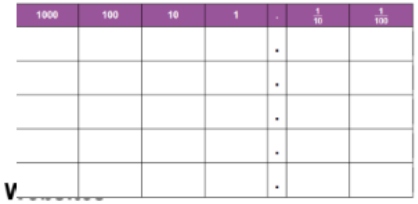
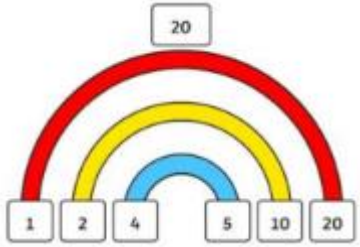
Key Instant Recall Facts (KIRFS) for KS2

	Year 3	Year 4	Year 5	Year 6
Autumn 1	I know the number of seconds in a minute. I know the number of days in a year and a leap year. I know the number of days in each month.	I know equivalent fractions for halves, quarters and eighths. I know how to use my knowledge of number bonds to 100 to give an amount of change from a pound.	I know commutative facts for all my multiplication tables. I know conversion facts for different units of measurement.	I know how to multiply numbers (including decimals) by 10,100 or 1,000. I know percentage and decimal equivalents of $\frac{1}{2}\ \frac{1}{4}\ \frac{1}{5}\ \frac{2}{5}\ \frac{4}{5}$ and those fractions with a denominator of 10 or 25.
Ideas for helping at home.	 Rhymes and memory games – '30 days has September, April, June and November. All the rest have 31, except February, it's the one, which only has 28 days clear, and 29 in each leap year.'	 Chants- Practice chanting the number bonds. Everyday Objects- Gather together objects and separate them in s many different ways as possible, write the calculation to match each one.	Speed Challenge – Take two packs of playing cards and remove the kings. Shuffle the packs and turn over two cards and ask your child to multiply the numbers together (Ace=1, Jack = 11, Queen = 12). How many questions can they answer correctly in 2 minutes? Practice regularly and see if they can beat their high score. Measure up- measure the length, mass and volume of different items in your home. Show the measurements in different units of measures. Ready steady cook- help out in the kitchen to follow a recipe. Can you convert the units of measures?	 Why not use/draw out a place value chart like this one to help. Remember when multiplying, the digits move to the left. When dividing, the digits move to the right. Dominos- write the fraction and decimal the domino is showing Bingo- make your own fraction to decimal bingo game Pairs game- make your own fraction and decimal card matching game

	Key facts There are 60 seconds in a minute. There are 60 minutes in an hour. There are 24 hours in a day. There are 7 days in a week. There are 12 months in a year. There are 365 days in a year. There are 366 days in a leap year.	Use your number bonds to 10 – Think about your number bonds to 10 and how they might help you. E.g.4+6=10 therefore 40+60=100		
Autumn 2	I know how to count in multiples of 4. I know addition number bonds facts to 100.	I know how to round any number to the nearest 10. I know how to find a 1,000 more or less than a given number.	I know inverse facts for my times tables. I know how to multiply whole numbers by 10,100 or 1,000	I know how to divide numbers (including decimals) by 10,100 or 1,000. I know how to give factors and multiples of given numbers.
Ideas for helping at home.	Chants- Practice chanting the times table. Everyday Objects- Gather together objects and separate them into groups of 4. Double & Double again – Multiplying by 4 is the same as doubling and doubling again. Double 6 is 12 and double 12 is 24, so 6 × 4 = 24.	Use playing cards to create a 2 or 3 digit number. Put them in order and decide whether to round up or down.	 Why not use/draw out a place value chart like this one to help. Remember when multiplying, the digits move to the left. When dividing, the digits move to the right.	 Why not use/draw out a place value chart like this one to help. Remember when multiplying, the digits move to the left. When dividing, the digits move to the right.
Spring 1	I know multiplication and division facts for the 4 times table. I know subtraction number bonds facts to 100. I know how to find 10 or 100 more or less than a given number.	I know multiplication and division facts for the 6x table. I know multiplication and division facts for the 7x table. I know how to multiply any number by 0 and 1. I know how to round any number to the nearest 100.	I know how to divide whole numbers by 10,100 or 1,000	I know how to derive multiplication and division facts using decimal numbers. I know how to recall all prime numbers up to an including 19.

Ideas for helping at home.	Everyday Objects- Gather together objects and separate them into groups of 4. Double & Double again – Multiplying by 4 is the same as doubling and doubling again. Double 6 is 12 and double 12 is 24, so 6 × 4 = 24.	Chants- Practice chanting the times table. Double your 3's (for your 6's) – 3x4=12 double 12 equals 24. So 6x4=24	 Why not use/draw out a place value chart like this one to help. Remember when multiplying, the digits move to the left. When dividing, the digits move to the right.	
Spring 2	I know multiplication and division facts for the 8 times table. I know addition and subtraction number bonds facts to 100.	I know multiplication and division facts for the 9x table. I know how to round any number to the nearest 1000.	I know how to round numbers to 10 and 100 . I know the square numbers to 144.	I know how to round decimals to the nearest whole number and 1 decimal place. I know how many: Cm in an inch, Km in a mile, Pints in a litre. Stones in a kilogram
Ideas for helping at home.	Chants- Practice chanting the times table. Double your 4's – Multiplying a number by 8 is like multiplying by 4 and then doubling. 8×4=32 so double 32=64, therefore 8×8=64 Five Six Seven Eight – fifty six is seven times eight (56=7×8)	Use 10 times table (for your 9's) – Multiply a number by 10 then subtract off the original number. E.g. 7x10=70 subtract off the original number 70-7=63 so 9x7=63 Use playing cards to create a 4 or 5 digit number. Put them in order and decide whether to round up or down.	Use playing cards to create a 2 or 3 digit number. Put them in order and decide whether to round up or down. Around the clock- think of a clock face. What are each of the numbers a square root of? E.g. 12: 12 is the square root of 144. What are each of the numbers squared?	Use playing cards to create a decimal number. Put them in order and decide whether to round up or down. Measure up- measure the length, mass and volume of different items in your home. Show the measurements in different units of measures. Ready steady cook- help out in the kitchen to follow a recipe. Can you convert the units of measures?
Summer 1	I know multiplication and division facts for the 3 times table.	I know multiplication and division facts for the 11x table.	I know how to round numbers to 10,100 and 1,000.	I know the formula for finding the area and of shapes I know cube numbers up to 125.

	I know how to add fractions with the same denominator within 1 whole.	I know multiplication and division facts for the 12x table. I know the decimal equivalents of any number of tenths.	I know percentage and decimal equivalents of a fraction with a denominator of a multiple of 10.	
Ideas for helping at home.	Chants- Practice chanting the times table. Everyday Objects- Gather together objects and separate them into groups of 3. Youtube – There are lots of Times table songs on Youtube to aid learning, why not try one out.	Use your 10x table when working on your 11s. Multiply the number by 10 then add one lot to the original number. e.g. 7 x 10 =70. 70+7=77 so 11 x7 =77 Use your 10x table when working on your 11s. Multiply the number by 10 then add two lots to the original number. e.g. 7 x 10 =70. 70+14=84 so 12 x7 =84 (Tenths only) Bingo- make your own fraction to decimal bingo game Pairs game- make your own fraction and decimal card matching game	Use playing cards to create a 4 or 5 digit number. Put them in order and decide whether to round up or down. Bingo- make your own fraction to percentage bingo game Pairs game- make your own fraction and percentage card matching game	Dice roll- whatever the number lands on, cube it Cards- turn a card over, square it and call out the answer. Can you say the answer quicker than your partner?
Summer 2	I know how to add and subtract fractions with the same denominator within 1 whole. I know how many mm in a cm. I know how many cm in a m. I know how many m are in a km. I know how many grams are in a kilogram. I know how many millilitres in litre.	I know the decimal equivalents of any number of tenths or hundredths. I know how to scale number facts by 10 and 100.	I know percentage and decimal equivalents of $\frac{1}{2}\frac{1}{4}\frac{1}{5}\frac{2}{5}\frac{4}{5}$ and those fractions with a denominator of 10. I know how to give factors of given numbers.	I know how to double and half decimals. I know the square root of numbers up to 12 x 12.

Ideas for helping at home.	Fraction number line. Use a number line involving fractions of the same denominator. Look at how we can use this to see how we can choose fractions with the same denominator and add them together. Conversion snap. Make playing cards with the different units of measure, each time you place a card down the first person to say how they are related keeps the cards.	Bingo- make your own fraction to decimal bingo game (tenths and hundredths) Pairs game- make your own fraction and decimal card matching game  Why not use/draw out a place value chart like this one to help. Remember when multiplying, the digits move to the left. When dividing, the digits move to the right.	Bingo- make your own fraction to decimal bingo game Pairs game- make your own fraction and decimal card matching game Factor Rainbows- children can draw, paint or chalk factor rainbows.  	Decimal dartboad. Set up a dart board with decimals around the outside instead of numbers 1-20. Leave the double section as a double but turn the treble section into a half. Around the clock- think of a clock face. What are each of the numbers a square root of? E.g. 12: 12 is the square root of 144. What are each of the numbers squared?